REGEIVED GENTRAL FAX GENTER

AUG 4:7 2006

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

John G. Babish, et al.

Application No.:

10/789,814

Filing Date:

February 27, 2004

Docket Number:

068911-0075

Title:

SYNERGISTIC ANTI-INFLAMMATORY

PHARMACEUTICAL COMPOSITIONS AND METHODS

OF USE

Examiner:

Shobha Kantamneni

Art Unit:

1617

## **CERTIFICATE OF TRANSMISSION**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to MAIL STOP AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

Date: 08/07/06

Angelo J. Mignanelli Exiv M. Olsok

#### MAIL STOP AMENDMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Sir:

## **DECLARATION PURSUANT TO 37 C.F.R. § 1.131**

I, John G. Babish declare as follows:

1) I am Dr. John G. Babish, Executive Vice President of Metaproteomics, LLC. I have held this position since August 2002.

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- 2) I have Doctorate and Masters degrees, respectively, in Biochemistry and Chemistry from Cornell University, as well as a Bachelor degree in Biochemistry from The Pennsylvania State University. A copy of my Curriculum Vitae is attached as Exhibit A.
- 3) I am also an inventor named in several domestic and foreign patent applications including U.S. Application Nos. 10/141,085; 10/789,814; 10/789,817; 10/988,393; 10/480,145; 10/484,123; 10/881,404; 10/774,048; 10/464,834; 10/234,002 and 09/952,632 and issued foreign and domestic patents, including U.S. Patent Nos. 6,140,063; 5,506,420; 6,629,835; 6,733,793 and 6,908,630.
- 4) On the basis of 30 years of training and experience, I am an expert in the art of molecular biology, more specifically, that aspect of molecular biology involving signal transduction. I was a faculty member at the College of Veterinary Medicine, Cornell University for 17 years. As Professor of Pharmacology and Toxicology, my research program involved the elucidation of mechanisms by which xenobiotics affect signaling pathways in normal and transformed cells. Using the tools of molecular biology such as monoclonal antibodies, northern and western blotting and enzyme-linked immunoassays, my research program developed cell-based assays for the identification of small molecules directed at inhibiting selected cellular functions. Findings from these studies were used to identify potential anti-viral and anti-neoplastic pharmacophores from natural products. My research has also identified both positive and negative drug-drug and drug-nutrient interactions.
- 5) I understand that in the course of the February 7, 2006 Office Action during prosecution in the above-captioned application, Examiner Shobha Kantamneni rejected claims 1 7 under 35 U.S.C.§ 103(a), as allegedly being unpatentable over Kuhrts (US 2004/0137096, PTO-892) for reasons of obviousness. I respectfully submit that the instant invention was conceived prior to the January 9, 2003 filing date of the cited Kuhrts application and diligently researched until the February 27, 2004.

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The basis to assert that the instant invention was invented prior to the Kuhrts reference cited is supported by copies of laboratory notebook pages dated from June 2002 through December 2003 showing research on the synergistic, anti-inflammatory effects of reduced isoalpha acids (RIAA) and isoalpha acids (IAA). Such support documentation is appended herewith as Exhibit B.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: 5-14-06

John G. Babish, Ph.D. Executive Vice President

Metagenics Research Center - Suite 100

9770 44th Ave. NW Gig Harbor, WA 98332

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U.S.S.N. 09/919,506 John G. Babish, et al. 1.132 Declaration of John G. Babish Page 4 of 7

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#### Exhibit A BIOGRAPHICAL SKETCH AND BIBLIOGRAPHY

John G. Babish

Chariperson, BIOnexus, Ltd.

Executive Vice President, Metaproteomics Inc.

#### Education

Institution and Location of Study	Degree	Date Conferred	Field
The Pennsylvania State University,	B.S	1968	Biochemistry
State College, PA Cornell University, Ithaca, NY	M.S	1974	Chemistry
Cornell University, Ithaca, NY	Ph.D.	1976	Biochemistry

#### Reseach and Professional Experience

Aug. 2002 - present Executive Vice President of Research & Development, Metaproteomics, Research Laboratories. Ithaca. NY. Metaproteomics develops clinically proven, patented dietary supplements and pharmaceuticals from natural sources. Duties include the design and evaluation of experiments elucidating mechanism of action and biological activity within complex mixtures.

1998 – present

(5% Effort) National Coordinator for the USDA Minor Species Drug Program (NRSP-7). The NRSP-7 program is funded by the USDA to provide funds and expertise necessary for the approval of pharmaccuticals used in the treatment of diseases associated with minor crop species. Duties include the coordination of industrial, academic and regulatory resources necessary for protocol development through final drug approval.

1997 - present

Co-founder and Chairperson of BIOnexus, Ltd. Ithaca, NY. BIOnexus develops and markets nutritional supplements to address health problems associated with AIDS. NutriVirtm, the BIOnexus supplement for wasting in HIV/AIDS, generated approximately \$600,000 in gross revenues in its first year of sales. NutriVirTM is reimbursed by Medicaid in 14 states.

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1991 - 1996

Founder, Chairperson, President and CEO of Paracelsian, Inc., Ithaca, NY. The Company was launched from the technology transfer program of Cornell University in 1991, and with the public offering in 1992 (Nasdaq, PRLN), became the first public corporation of a Cornell University technology transfer effort. Babish was associated with the attainment of over \$12 million dollars in corporate financing.

1984 - 1996

Temured, Associate and Professor of Pharmacology and Toxicology, Department of Pharmacology, College of Veterinary Medicine, Cornell University. Offcred the first course in molecular risk assessment in the USA in 1979; member of the graduate Fields of Pharmacology, Toxicology, Veterinary Medicine, Food Science and Epidemiology; successfully petitioned the State of New York for the approval of the separate Fields of Toxicology and Pharmacology at Cornell University.

1978 - 1984

Assistant Professor, Department of Preventive Medicine, NYS College of Veterinary Medicine, Cornell University, Ithaca, NY.

1976 - 1978

Postdoctoral Scientist, Food and Drug Research Labs, Waverly, NY.

#### Invited Presentations (Recent of 38 presentations)

Micronutrient deficiencies in AIDS wasting at Progressive Management of AIDS Wasting: 2000. Hunter College, NYC. March 24, 2000.

Phytochemicals and NF-kB activation at IBC's Conference on The Health Benefits of Natural Phytoceuticals. Montreal Bonaventure Hilton, July 22 – 23, 1997.

Chemically-induced cell cycle stasis in immunotoxicology. 12<sup>th</sup> Annual NIOSH Conference on Mechanisms of Immunotoxicology — Role of Apoptosis in Immunotoxicology. University of West Virginia, Morgantown, WV. September 10 — 12, 1997.

### Publications (Selected of 108 peer-reviewed publications)

Payne M.A., Babish J.G., Bulgin M., Lane M., Wetzlich S., Craigmill A.L. (2002) Serum pharmacokinetics and tissue and milk residues of oxytetracycline in goats following a single intramuscular injection of a long-acting preparation and milk residues following a single subcutaneous injection. J Vet Pharmacol Ther. 25(1):25-32.

Calabrese C., Berman S.H., Babish J.G., et al. (2000) A phase I trial of andrographolide in HIV positive patients and normal volunteers. Phytother Res. 14(5):333-338.

Ma,X., Stoffregen,D.A., Wheelock,G.D., Rininger,J.A. and Babish,J.G. (1997) Discordant hepatic expression of the cell division control enzyme p34cdc2 kinase, proliferating cell nuclear antigen, p53 tumor suppressor protein, and p21Waf1 cyclin-

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John G. Babish, et al.
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Page 6 of 7

dependent kinase inhibitory protein after WY14,643 ([4-chloro-6-(2,3-xylidino)-2-pyrimidinylthio]acetic acid) dosing to rats. Mol. Pharmacol., 51, 69-78.

Rininger, J.A., Goldsworthy, T.L. and Babish, J.G. (1997) Time course comparison of cell-cycle protein expression following partial hepatectomy and WY14,643-induced hepatic cell proliferation in F344 rats. Carcinogenesis, 18, 935-941.

Rininger, J.A., Stoffregen, D.A. and Babish, J.G. (1997) Murine hepatic p53, RB, and CDK inhibitory protein expression following acute 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) exposure. Chemosphere, 34, 1557-1568.

Rininger, J.A., Wheelock, G.D., Ma, X. and Babish, J.G. (1996) Discordant expression of the cyclin-dependent kinases and cyclins in rat liver following acute administration of the hepatocarcinogen [4-chloro-6-(2,3-xylidino)-2-pyrimidinylthio] acetic acid (WY14,643). Biochem. Pharmacol., 52, 1749-1755.

Vancutsem, P.M. and Babish, J.G. (1996) In vitro and in vivo study of the effects of enrofloxacin on hepatic cytochrome P-450. Potential for drug interactions. Vet. Hum. Toxicol., 38, 254-259.

Patents (Selected of 15 US and three foreign patents)

A PROPERTY AND ADDRESS OF A PARTY OF A	na three foreign patents)
US Patent No. 5,833,994	11/10/1998 Use of the Ah receptor and Ah receptor ligands
	to treat or prevent cytopathicity of viral infection.
US Patent No. 5,612,188 system.	3/18/1997 Automated, multicompartmental cell culture
US Patent No. 5,529,899	6/25/1996 Immunoassay for Ah receptor transformed by dioxin-like compounds.
US Patent No. 5,496,703	3/5/1996 Indirect immunoassay for dioxin-like compounds

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Exhibit B

## LABORATORY NOTEBOOK SHEETS DOCUMENTING RESEARCH ON RIAA, IAA AND OTHER HOPS DERIVATIVES

Date	Notebook Number	Pages
6/4/02 - 6/24/02	2002-03	
8/28/02	2002-04	13 - 23
12/5/02	2002-06	3-4
3/5/03	2002-06	1 - 2 43 - 44
4/23/03	2003-01	
6/5/03	2003-01	23
9/3/03	2003-4	<u>45</u> 22
12/15/03	2003-5	42

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PAGE 23/39 \* RCVD AT 8/7/2006 5:07:48 PM [Eastern Daylight Time] \* SVR:USPTO-EFXRF-5/17 \* DNIS:2738300 \* CSID:617 535 3869 \* DURATION (mm-ss):14-22

	PROJECT PEE	NO in RAN cel		No. 2003 5	1
		(LODI-894W 6.17D2	17 con +		
	Compounds for Managerics PQER seator, using 1:1 and 1:10 daution from the pit a.17.02 (URING RAW 264.7 cans with LPS attrout Correcting)	HIGH AND 15 rain was 5 pM ARA1	-16		; ;
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	3. BetaTech Aromathop OS (10µgA/L)	Aromahop CE = 30,000 10,000 5,0			į
	4. BetaTech (makep (IAA) (10µg/µL)	"Sezihop (IAA) = 50,000 10,000 5,00			-
	5. BataTech Redition (RIAA) (10pg/pl.) 8. BataTech Tetrahop Cold (10pg/pl.)	Resiltop (RIAA) = 50,000 10,000 5,00	· · · · · · · · · · · · · · · · · · ·		! }
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1.19		MILES - DILLIP	1001) • 0001 ·									
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8.4	PROJECT POED IN RAWCEL	(Ls +N	10 Assur	Notebook No. 6		23
1	The purpose and	Proced	2002-0	5-23	age Nof	
	Compounds for Melagenics PGE2 dassey, Using 1:1 and 1:10 dilution from the plates 6.2.4.02 USING RAW 264.7 calls with 6LP3 attrautation and 15 min Compounds		di serie tooji da			
	Aicohol extract of opent hope     Et			Sher Merall		i
	2. Ursoile word 90% - \$abtrates Ursoil	:   -	.000 0,500 0.050 .000 0.300 0.050	8		i
ľ			.000 0.500 0.050			!
-	4. Cleanolic add 80% - Setinas Cirenolic add	1AC% = 50.000 5.	000,0 002,0 000.	8		
'	5. Bate Tach Radings (RIAA) (10)gpt.) Redinos (R	₹1AA) # 50,000 5,	eno 0,500 0,050 °			}
1		-umin = 50,000 : 5.	0.500 0.030			! ]
ı			000 0.600 0.050 1	8		:
	Ursoftu suid		500 0.250 0.025 500 0.260 0.025			ļ
	1	mam = 50,000 5,0	900 <b>9.50</b> 0 0.050 <sup>1</sup>	8		•
1:		ebrax = 5,000 0.5	500 <b>0.0</b> 50 0.005			
-	10. Aspirin - Sigma Asp	phn = 50.000 10.1	000 5.000 1.000	8		: 1
1.		1:		80		
	2 COXLINA Compounds for Matagenics POSE2 assets, using unfalled and 1:1 dilution from the plains	·				
if.	6.74.02 [USING RAW 254.7 cells no LPS attraction and 60 min with			सम्बद्धाः		i
	Control of the second s	AND THE PROPERTY OF THE PROPERTY AND ADDRESS OF THE PROPERTY O		S. Marie		i
	1. Alcohol extract of spent hops 2. Limatic odd 80% - Estimas	50.000 · 5.00		8		1.
	3. Cernoda edi (Roserrary)	50,000 5,00	:	6		
	4. Cleanollo apid 50% – Sabinsa	50.000	1	8		
	S Section Section 1 and 1 and 1 and 1	50.000 s.nr				
	6. Cureunin presular (19858)	AA) - 80.000 : 8.00 80,000 : 8.00				
	4	8.000 j 9.000		8		.
		IAA = 25.000 i 2.50	0 0.260 0.025			:
	8. Ibunalen - Sigma Ibuna	; Ţ	***************************************			į
	9. Celatrox Galet	1 . 1	:	6		! !
	10. Apphin - Signa Asp	film = 50,000 10.00	i			.
₹.		<u> </u>	total =	80		1
					Continued on Page 24	,
- ;		. :	Read and	Understood By	• <b>,</b>	]
	Lagran hall	1 211		DC <		1
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PROJECT PSE			<u>/ )                                   </u>	Notebook	ued From Page	
	2002 507	50440	1 conf	4.		
		C2_COX2_A649_8:				
Add Calls - Wall	s, colle treutad with basi meterial, simpl en mode begilvisi ingi diking 1:20.	:   .	: *			
8,78,03	on made implicated and diletted 120.		And the same among and that become	)E2.		
1. Sets Tech (IAA)		: IAA n 25	5.0 0.5	0.05		
2. BESTELS (RIAA 3. MARIAE [T-1]	) Se	Total # 25	4,0 0.8	0,0\$ à	. Thank o	smounds.
4. MARMA-(21)		MA - 12,6 RIAA = 12,6	50 0.3 25 0.35 2.5 0.25	0.028 0.028 0.00	dn a	ge 2087
	: :	Total = 20 !AA # 16.7 RIAA # 4.5	5 0,5 3,3 0,333 1,7 0,187	0,05 g 0,055 0,017	noteLo	
В (ААЯНА- <sub>[5:1]</sub>		Total - 25 UA = 30.5 RIAA - 4.2	. 5 0.6 4.2 0.417 0.6 0.069	0.06 g		
6. MARIAA - [10:1]		Total = 28 IAA = 227	6 2.5 4.65 80.4545	0.005 B 0.000		
7, MARIAA - [80 <sub>(6)</sub>	•	Total = 28	0.45 0.0453 b 0.5	0.0045 0.08 a		
8. MAIRINA - [10021]		. RIAA = 0.3	4.80 [0.490 0.10 [0.010 :0 0.8	0.049 0,001 0.06 m		
a, MA'Tryptantinin -	116]	MA = 24,75 RMA = 0.26	4.96 0.49e0 9.05 0.0050	0.0006 0.0006		ļ
	,	IAA = 12.5 Tryptantists = 12.5	2.5 0.26 2.6 0.26	0. <i>0</i> 5 p 0.025 0.025		
Nun 1000, 500, 15,5 a	nd 7.8 accommodates of the standard corp.	t de further in Column 2	<u> </u>	Total = 73		
			,			
This place	4245 1	-sted	the s	and 45	the	plate on
Pask De	this n	ate love to	-			
	C3_COX2_A648_8_25.626TD6					
AR49 Galls - on its are ethnolated with IL-IILPEA(2) assay for PGE2 28 minyons later, FO PGE2 assay for toods unclaimed and 1:20	72 for 24 two, weighed, test male righ	anded for 60 minutes th	en A29197 (50 µM) adde	-Ale	rey DI2	بهوم ساركة
26.0				2- /-	NUC	
1. Disopropyl muruphosphate	CCX-2 25	5.0 6.5	0.05 B	B 3 /	40105	6 1 7 7 H/C
2. Viore 3. Column	COX-2 26 COX-2 26	3.0 0.5 3.0 0.5	0.05 g	- 1/V	1 '1' 1''	
4. Nimenselide 4. Numerten	COX-2 25	5.0 0.5	0.06 a	1-2-	1 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	3 lbt 76412
6. httomathacin	COX-2/COX-1 25 .	5.0 0.5 5.0 0.6	D.D5 g	7-1A	53% 1	
7. Aspirte \$. Belloyik: acid	COX.1 25	50 05	0.05 a	&- A	N1071	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
D. Naprosen	- 25 - 26 ·	5,0 0,5   5,0 0,5	0.06   8	タール	8280	6+ 11K17
10. Acetaminophus	• <b>25</b> ·	5.0 G,5	0.05 g	10-A	2085 6	+ Jokak
	1111.	<u>.   </u>	1 1	-4-12	3147	513me
16: 0/1						1-81 KT 4007
Jan Col	75 77 ~ 19	G CATO	1	प्रमुख्य	7270	400
The factor	The of	De Cu	4 4	Cond :	1	3
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1 excused to	<u>u</u> <u>8</u>	14 07		266		9-1-1
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PROJECT RE	Emprosition	طت	A-54	<u>5~4</u>	cs colls		ook No.	
AGS Cells Formul A - week, and test maler For POE2 actsy run medig undivised 8.25.82	is and assay for PGE2 (he	next stay		<del></del>	· · · · · · · · · · · · · · · · · · ·	٤		724-124
		Don't					, ,	
1. Oleanollo seid (NO% Sabinse)	Oleanolla seid	<b>- 25</b>	5,0	0.5	0.05	B .		
2. BelsTech (RIAA)	Beletech (RIAA)	25	3.0	0.0	0.05			
3. Tryptenitrin - Waron Chemionis	Tryptanshriq	- 10	,	0,1	0.01			
4. RIAA:Oleanolio ecid - [10:1]	Thirt RIAA Cléannta	a 22.7	8 4,5	0.5 0.485	0.06 0.045	•		
d, RIAA:Cheanolic add - [5:1]	Total RIAA	28 20,8	0.5 · 6 4.2	0,6; <b>(5</b> 0,6 0,457	6.005 0.03 9.042	•	he Ars	H tevo
6. RIAA:Clasnolio seid - [1:5]	Cite noss Total RAA	= 25	0.8 - 5	0.083	0.06	P	15tes in	rene non
7. RIAA: Diga polio acid - (1:10)	Cleanoli: Total Risa	= 25	: 5	0.5	O.DS	L.	1 + 6 4	
	Ojesnoje			•		🖯		suner es
8. #1115 Metogerakoa	#1113	- 25	5	0.8	6.05	•J	May 1 - 5	49 047-8
9. RIAA:Triplantinto - [121]	Total Pian		- 5	6.9	20.05	ر الم	14 N. L.	7000
	Riaa Trypizathih	•			Total = 2		med there	To the
Run 1000, 500, 15.6 and 7.8 decembrations of the		Column 2			4 1 :	_   '		
AGE Cells Format A - womb, add lest material age a For POP2 many run media undisted 6.26.02 May POPS STATEMENT CONTROL OF THE POP	many for POE2 the suit day			·		n	27 - 10 ept	
4 Bets Took (SAQ)	MA= 25	6.0	0.5	0.05	• .			
2. DeleTech (RIAA) 3. MARKAA (1:3)	BefeTech (RIAA) = 25 7688 > 25	9,0	i	0.05	•			
	WA = 12.5 RIAA = 12.5	2.0	0.8 0.25 0.28	0.025 0.025	:			
4. IAARIAA - (2:1)	Total = 25 IAA = 18.7 RIAA = 11.7	83 1.7	0.5 0.333 0.187	0.05 0.033 0.017				
6. MACRIMA - (S: 1)	Tetat 2s MA = 208 RMA = 4.2	4.2 0.1	0.6 0.417 0.063	0.06 0.042 0.006		.   .	V	
8, MASQA4-(10:1)	Tobel = 25 IAA = 22,7 RIAA = 2,1	4.68 0.48	0,8 9,4545 0,0455	0.06 0.0458 0.0046	•			
7. IAASBAA - (BON)	Total 23 IAA 7 24.5 PIAA 8 0.5	4,00 0,10	0.5 0.460 0.010	0.05 0.049 0.001				
& MARINA - (1900;1)	Tirbel - 25 IAA - 24,76 RIAA - 0.26	4,85 0.86	0,4 8.4956 9.0060	6.05 9.0496 9.0005	0			
0. IAACThyptophylir = [1:1]	Total + 28 1AA = 12.8 Tryplanadh + 12.6	5 2.6 2.5	0,5 0,25 0,25	0.05 0.025 0.025	ō			
				Toim -	73			
Rum 1000, 500, 15,5 and 7,5 economicalizate of the based			497477	·····			! '	
AGS Calle - cells grown to confleetice, with, o away for PGE2 30 miretim later. For PGE2 sawy nin media undibited and 1:29 a_bt.05	and another late a count for an i	n Lygnes (Pe	my 123167 [85 M	M) motion d and		Plat	= 30	cs dence hh
						الد الله	1-1	
1. Ottopropyl suorophosphata	COX-2	25	5.0	0.5	0.03 0		rest in	19-Herigus
2. Wood	cox-s	25	5,0	0.5	0,05 8	کے و	ded and	their (C)
7. Calebrax	00X-2	25	6.0	9.5	0.05 &	in	L Jake	1-14
4. Nimenaulide	COX-2	25	5,6	6.5	: 0.95 8	, ,,,,,,	74.	Ter Men
5. Ibuşxofen	C006-2/C006-1	25	.6.0	0.5	0.05 8	إ بر	ree stru	الطوواس ا
6. Indomelhacin	COX-1	25	5,0	0.5	: 0.05 6	4	23147L	トナックトル
7. Auplite	COX-1	25	5.0	0.5	p. <b>qq</b> 8	p	*干は行	יין אין אין
8. Salkylic acid	•	25	5.0	0,5	D.08 6		حسو کردس	of were the
9. Neproxen	•	25	5.0	9.8	D.016 8	<b>₹</b>	- 1015	Disters
10. Азеканинорфия	•	25	5.Å	0,3	0.00 9 Telat= 80	.   -		
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PROJECT <u>Cell Lysale</u> a	elcellafu.937	Notebook No. 20	02-06
Copenny	= 1 202 -06- = k(2) U-537 6	Change Wednesday, Name (8, 2001 2012)	3 5 - 4
2 1/Am		Thursday, December 05, 2002	I-Smort
Label   Week   Product   Program   Program	DecCom   Com Com   DecCom   DecCom	Page 1/4 Has belle III Has bel	3003
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PHOJECT Coll Lyade	Experiment	Notebook No 2002 Continued From Pag	1-06 10 L
		Co×-2 + 52	SED
- Organia Contraction of the Con	-2423, 18544 -2423, 18444 102033, 1824A-		
1 Co. 1 Co. 2 Co.	-0103, 1844 -2203 - 1844 -103033, 1824A		
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- <b>A</b>	1				
ROJECT RE ASSUM IN A	Ł	5 Cels		Notebook No. 2002-06 Continued From Page	43
Rompose + Prosedus	Š	can be	1	e0 2 - 0 a - 43	
AGS Cells - cells grown to confluence, weldt, but misturials at sunning for PGE2 19 colories later. For PGE2 assay no medio disted 1:20 only 2,03.61	dead (	For 60 minimos then A2318	57 [36 Jan	added and	
Compound Conven	into	dri dg [ug/mLi [ug/m	44	da d4 sphil sphil No Weite	
Utratritienmits. Ingrediens     META561		60 EQ		0.5 0.05 8	
3 Rosemery extract (07720)		50 5.0		0.5 0.05 8	:
4. Clemoid anid (80% Sabinse)  S. RIAA (Huss)		50 5.0	1	0.5 0.05 B	
6. Rufin (08204)		50 50 50 5,0		0.5 0.06 8	1
7. Gureumin (07367)		50 5.0	į	മർ 0,05 в	}
6. Glinger root (06936)		50 5.0 50 5.0	1	9.5 0.c8 6 0.5 0.05 8	
10. Applifu (Starrer)		50 5.0		0.5 0,05 8 0.6 0.05 8	
			ļ	Total = 80	
AGS Calls - calls provint to confluence, week, feet mater seasy for PGES 30 extrates large. For PGES reseay named of the 4-50 call.	C2	CO.EG.CO_EDAXOO			
For PGE2 ensery run media distrat 120 only 3.03.00		was manuting than /	A23187 [	DirMI added and	: }
Contound	<del>chrise</del>	di- lorda [uz/mt]	d2 d2	63 dd	
1. hottop ANI 127 2. \$1115		50	5.0	0.9 0.05 A	
3, Totalop AN1120	-	60	6.0	0.5 0.06 8	
4. Hamphop AN1130		\$0 80	5.0	0.5 0.05 g	
6. Alphatrop AN1124 6. DetaStot AN1125		ا مأم	8.0	0.5 0.06 8	
7. les-Rich AN1090		1 ; !	F.O	0.5 0.06 s	
8. Temple Entract M4411 AN1175  9. ATO LIPOTECH			5.0 5.0	0.5 0.05 6	
tů. Aformhop Alvi 120		!!!	5.Q	0.5 0,00 8	ļ
		60 6	ا ما	0.5 0,05 6	
		1 1 1		Total = 60	ĺ
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3-2-23 Date Read and Understood By

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3-6-03

PROJECT RGE	2 Assey	in 863	Cells		Notebook No. 2 Continued From		<u>{</u>	23
ARE Compared to the state of th	por wing	0.5 0.05 0.50 0.05 0.50 0.05	molts cells	b /4	De its to POE a nAC natural Con 2003- re oktobre CC # HT	1001 Pound 01-03 275 3-79	1/5 5 FM 48	
A PERA_CARREST (170)	Red   4.1	4.5 0.00	I - Calls grown to confin PGE2 38 minutes bits; absoy nin mode district		C1_COXAGS_04.21.p3	23167 [36 pHI] skilet a	i	
	PEAA = ELES GAS Aggins = 60.80 4.85	0.0000 Born 4.21.03	areay run media diuneg	120 0019	d1	d2 e3	64	
		Compoun	<u> </u>		Comments - (pp/mt)	hopur	hg/mL]	No Walls
		1. tacheo	APO 1727	.	50 80	5.0 Q.5 5.0 Q.5	0.05	B
		3. Tetraho	p AN1120		50	5.0 Q.5	0.05 0.05	a P
		4. Hoxeno	OEITINA Q		50	5.0 0.5	0.05	D
		S. Alcher	rp AN1124	.	5Ó	5.0 D.8	0.05	8
<b>j</b>		6. BelaSta	i i	- 1	. 50	5.0 0.5	9.05	9
		7. Iso-Rich	! 1		60	5.0 0.5	0.08	6
		1	Ednet#4411 AN1175		50	5.0 0.5	0.05	8
		H AMPLE	1		50	5.0 0.6	0.05	9
		in Andre	100 AN 1125	ĺ	50	5.0 Q.S	0.06	
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ROJECT _	Antioridant Study in	4A5 a	Notebook No. 2003-0 ( Continued From Page
	2× per	men f	2003-01-95
	Anticoddant Testing in HAEC		Cons. D.
	Anticoddent assay using HAEC and 1000 uM H2O2- Testing dates:		14/03   6/5/03   6/5/03   603-01-30.
		d1	1==
	1 Hopsteiner CO2 Hop Extract (AN1082)		fo/mt] [pg/mt] [pg/mt] No. Wells
	2 Hopsteiner Beta Arome Extract Light Stable	100	30.0 1.00 0.10 8
	(AN1083)	100	10.0 1,00 0.10 B
		100	10.0 1.00 0.10 8
	4 5% Alpha Hydrohop (AN1085)	100	10.0 1.00 0.10 8
! ;	5 YC-Hop Arama (AN1088)	100	100 0.10 8
	8 YC-Alpherich (AN1087)	100	10.0 1.00 0.10 B
	7 YC-TETRA (AN10AB)	100	· '
	8 YC-Kettle RHO (AN1089)	100	10.0 1.00 0.10 8
	9 (SO-Rich (AN1090)	100	10.0 1,00 0.10 8
	10 YC-Purified Alpha	100	10.0 1.00 0.10 8
: : :		<u>.                                    </u>	
		1.	(FO) GOM
	. 06.0	ZÒS/Z_HAÈC_ROI	10 mis gont
	Antioxidant Teating in HAEC Antioxidant assay using HAEC and 1000 µM H202	-Duro	100
!	Testing dates:	6/3/03	84/03   6/5/03
	No. Test Material	[µg/ml]	d2 d3 d4 la/mL1 No. Wells
	1 BetaTech 1% Alphahop (AN1124)	100 (100	10.0 <sub>10.40</sub> 1.00 <sub>10.40</sub> 0.10 8
	· 2 BetaTech 1% BetaStato 10A (AN1125)	100	10.0 1.00 0.10 8
	3 SelaTech 1% Aromahap (AN1128)	100	10.0 1.00 0.10 8
	4 BetaTech 1% Isohop (AN1127)	100	
: !	5 BetaTech !% Redinop (AN1128)		11.10
	6 BetaTech 1% Tetrahop Gold (AN1129)		10.0 1.00 0.10 8 Y 1/22 1
	7 BetaTech 1% Hexahop Gold (AN1(30)	1 .	
	8 BetaTech 1% Hops Olf (AN1131)	.] ]	
			10.0 1.00 0.10 8
; ; ;		ا د ا	10.0 1.00 0.10 8
	10 RIAA Hops #1199 (AN177)	700	10.0 1.00 0.10 8 total = 80 ,
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